

ABSTRACT

An LED inspection lamp has a plurality of LED sources, each source for emitting electromagnetic radiation at a different peak wavelength, each different peak wavelength for causing visible fluorescence in a different leak detection dye. A lens may be associated with each LED so that radiation passing through all lenses from their associated LEDs is superimposed in a target area at a target distance from the lenses. Another LED inspection lamp has a plurality of LEDs emitting electromagnetic radiation at a peak wavelength for causing visible fluorescence in a leak detection dye, and a lens associated with each LED so that the electromagnetic radiation passing through all lenses from their associated LEDs is superimposed in a target area at a target distance from the lenses. A lens adaptor has a lens housing for attachment to an LED inspection lamp with a single LED emitting electromagnetic radiation at a peak wavelength for causing visible fluorescence in a leak detection dye, and a lens within the housing, the lens and housing associating the lens with the LED so that substantially all of the radiation from the LED passes through the lens and is focused in a target area at a target distance from the lenses. Another lens adaptor has a lens housing and a lens, the lens housing for attachment to an LED inspection lamp with a plurality of LEDs emitting electromagnetic radiation at a peak wavelength for causing visible fluorescence in a leak detection dye, and the lens for associating with each LED when the lens housing is attached to the inspection lamp so that the radiation passing through all lenses from their associated LEDs is superimposed in a target area at a target distance from the lenses.